- 1861, p. 7), a species very distinct from the Red-headed C. aura, being smaller in size, and having the naked skin on the head yellow—from Surinam, where the true C. aura was also found, specimens of both these species from that country being exhibited side by side in the Zoological Gardens at Amsterdam.
- 6. Leptoptilus capillatus (Temm.), a fine species of Adjutant from Java in the Amsterdam Gardens.
- 7. Casuarius uniappendiculatus, Blyth.—The example of this species, already spoken of at previous meetings of this Society*, was still living in fine adult plumage in the Amsterdam Society's Gardens.
- 8. Felis aurata (Temm.).—A specimen of this scarce and beautiful Sumatran Cat was in the Zoological Gardens at Rotterdam.
- 9. Cervus schomburgki, Blyth, P. Z. S. 1863, p. 155.—A Deer lately received by Mr. P. Martin, Director of the Amsterdam Gardens, from Siam, was perhaps the female of this new species of Mr. Blyth. Mr. Martin was making efforts to obtain the male.
- 10. Tantalus ibis.—A bird of this scarce species had been living for some years in the Antwerp Gardens. Dr. Sclater called attention to the fact that an individual of the same species in immature plumage had just been added to the Society's collection.
- Mr. W. Williams of Tregullow communicated some observations upon the growth of the young West Indian Tortoises hatched in this country, as mentioned in the Society's 'Proceedings' for 1862 (page 266). The larger of the two young Tortoises on the 21st of May weighed nearly an ounce, and was about $4\frac{3}{8}$ inches in girth round the middle. The smaller of the two weighed exactly $\frac{3}{4}$ of an ounce, and measured about 4 inches in girth. The heat of the pinepit in which they had been kept had varied from 65° to 70° Fahr. during the winter; as the spring advanced, the heat had ranged from 75° to 85°.

The following papers were read:-

1. Descriptions of New Species of the Family Uropeltid.e from Southern India, with Notes on other little-known Species. By Captain R. H. Beddome, Officiating Conservator of Forests, Madras.

(Plates XXV., XXVI., XXVII.)

Genus Silybura.

1. SILYBURA SHORTII. (Pl. XXV. fig. 1.)

Head-plates as in S. brevis, but vertical, 6-sided, and occipitals pointed behind; caudal disk very large and well-defined; scales very

* See Trans. Zool. Soc. iv. p. 359.

PROC. ZOOL. Soc.—1863, No. XV.

strongly 2-3-keeled; terminal scale large, slightly bicuspid. of the body in 17 rows, on the neck in 19. Eye very large. length 9 inches. Colour blackish, with large dull yellowish white mottlings (the two colours nearly equally divided); tail beneath black, with a yellowish band on each side. Abdominals 134; sub-

Shevaroy Hills (4500 feet elevation). Forwarded to me by Dr.

Short.

2. SILYBURA OCELLATA.

Rostral pointed and much produced; nasal scutella meeting behind the rostral, and separating it from the frontals; eye very small, obscure, in front of ocular shield; other shields and labials as in the genus; scales round the neck in 18 rows, round the trunk in 17; caudal disk not very clearly defined; scales 2-5-keeled; terminal shield entire, or slightly 2-3-pronged; abdominals 199; subcaudals 8 or 10 pairs, some generally entire. Total length $14\frac{1}{2}$ inches. Colour of the body of the male yellowish, becoming gradually brown near the head and tail, of the female dull brownish, of the young dark purplish brown; all banded with transverse rows of four or five black-edged white or yellow spots (like eyes), generally rather irregularly placed. Sides of the belly with transverse, very irregularshaped, yellow or white blotches, rarely meeting over the abdominals, and forming a transverse band.

Walaghat, on the western slopes of the Nilgherries, at an elevation of 3500 feet, in the dense moist forests. I procured three

specimens—male, female, and young.

3. SILYBURA BREVIS, Günther.

The specimen here figured only differs from the one described by Dr. Günther in having sixteen rows of scales instead of seventeen, and in the terminal scale of the tail being entire and not bicuspid.

I procured this specimen on the Nilgherries; the one described

by Dr. Günther was found on the Anamallays.

4. SILYBURA NILGHERRIENSIS. (Pl. XXVI. fig. 1.)

Scales in 17 rows; anal large, bifid; subcaudals 9; snout obtuse: rostral far produced back between the nasals; nasals just meeting behind the rostral; vertical 6-sided, pointed in front and behind; eye rather large, in front of ocular shield; caudal disk well defined: scales very prominently 2-3-keeled; terminal scale ending in two points. Colour of the body of an indigo-hue, with small dull yellow blotches; belly dull yellowish. Length 17 inches; circumference 3 inches.

Ootacamund, Nilgherries, 7000 feet elevation.

This is by far the largest Earth-snake we have in Southern India. It is possible that S. brevis may be the young of this species: they are, however, found at different elevations; and without intermediate forms I cannot venture to unite them, that being the smallest Earthsnake in our presidency, and this the largest. There is, however,

scarcely any difference in the shields of the head, though the head of Silybura brevis is broader.

5. SILYBURA BEDDOMII, Günther.

I have lately procured numerous specimens of this Snake on the Shevaroys, elevation 4500 feet. I have also found it in the Mudunallay Forest, elevation 3000 feet. The spots on the scales are

yellow, turning white in spirits.

Note.—Silyburæ brevis, nilgherriensis, shortii, and macrolepis (a Ceylonese species) have a well-defined head, with broad snout and a large eye. Silyburæ ellioti, beddomii, and ocellata have a pointed snout and a small eye (as in the genus Rhinophis).

6. Rhinophis sanguineus.

Scales of the body large, in 15 rows; of the anterior portion of the trunk sometimes in 17; rostral much produced, very sharp, conical, horny, produced back, and covering the conjunction of the nasals; nostril in front of nasal shield; eye very small and obscure, in front of ocular shield; four upper labials, 1st small, 2nd, 3rd, and 4th large; caudal disk nearly as long as tail, oblong, covered with excrescences, a red streak down the centre and one on each side. Colour of the body bluish black; belly bright red, with blackish mottlings; anal bifid; subcaudals of the male 9 or 10 pairs, each with 4 to 6 keels, and some of the approximated ventral plates and a few of the two lowest rows of scales also keeled; female subcaudals 6 or 7. Total length of large male 13 inches, female 10 inches; circumference 1 inch; abdominals 195.

The brilliant red colour of the abdomen fades in spirits.

I procured numerous specimens of this species at Cherambody in the Wynand (Malabar), elevation 3500 feet; they were all dug up in one spot. I have not met with it elsewhere.

7. RHINOPHIS MICROLEPIS. (Pl. XXVI. fig. 2.)

Scales of the body small, in 15 rows; of the anterior portion of the trunk in 17, of the neck in 19. Caudal disk oblong, orbicular, one-half the length of the tail, covered with excrescences, which are confluent into streaks; subcaudals 10; anal bifid; head-plates as in R. sanguineus, but rostral less sharp. Colour of the body greyish black, with indistinct dull yellowish white mottlings; belly yellowish white, with dark mottlings; tail beneath yellowish, with a broad black spot. Abdominals very small, 199. Total length 6 inches; circumference $6\frac{1}{2}$ lines.

I procured this (a solitary specimen) in the Wynand, elevation

3500 feet.

Genus PLECTRURUS.

* Eye rather large, with a supraorbital shield.

8. PLECTRURUS PERROTTETI, Gray, P. Z. S. 1858,p. 265.

This is most abundant on the tops of the Nilgherries, 7000 to

8000 feet; it is dug up in gardens, and found under the turf and under stones. My largest specimen is 14 inches long; it rarely, however, attains that size: the one figured is the usual size of the adult.

(Pl. XXVII.) 9. Plectrurus guentheri.

Scales of the neck in 17 rows; anterior portion of the trunk in 13 rows, of the rest of the body in 15 rows; head-shields as in P. perrotteti, only the rostral is not produced so far back. All the scales of the tail 5-6-keeled, and some of the approximated scales of the body also keeled; terminal scale of the tail with four sharp points, and covered with small tubercles; abdominals 172, and a bifid anal; subcaudals 12. Total length 13 inches, circumference 13 inch. Colour of the body of a bright reddish purple; belly yellow, the yellow colour rising up on the sides of the trunk into regular pyramidshaped markings, and the purple colour descending in the same way down to the abdominals.

I procured this very fine species in the moist forests at Walaghat, on the western slopes of the Nilgherries (3500 feet elevation). have great pleasure in naming it after Dr. Günther.

** Eye small, no supraorbital shield.

10. PLECTRURUS WYNANDENSIS.

Scales round the body 15, round the neck 16 or 17; rostral scarcely produced back between the nasals; no supraorbital; muzzle more obtuse than in P. perrotteti; eye small; subcaudals 11 pairs; anal large, bifid; tail compressed; scales smooth, terminal spinose, tail ending in a single horny point. Colour bluish black, with broad white blotches on the belly, which become larger and more numerous towards the tail; tail uniform bluish black.

Wynand, elevation 3500 feet.

(Pl. XXV. fig. 2.) 11. Plectrurus pulneyensis.

Rostral rather obtuse, produced back between the nasals, and touching the frontals, nasals not meeting; eye small, in front of the ocular shield; no supraorbitals; vertical 6-sided; occipitals rounded behind; 4 upper labials. Scales round the neck 19, round the body 17; subcaudals, male, about 12, female 6-8. Tail compressed, ending in a small spinose keel, more or less bicuspid. Scales of the tail all smooth. Colour uniform earthy brown; a lateral bright yellow streak from the labials continued on each side of the trunk, about 1 inch or $l^{\frac{1}{2}}$ inch in length; a few minute yellow specks on the back; belly with broad bright yellow transverse bands, very irregular as to number and shape; yellow markings about the vent and tail.

Very abundant on the Pulney Hills, 7000 to 8000 feet, where it takes the place of P. perrotteti of the Nilgherries; in habits, &c.

exactly the same as P. perrotteti.

The very brilliant yellow fades in spirits.

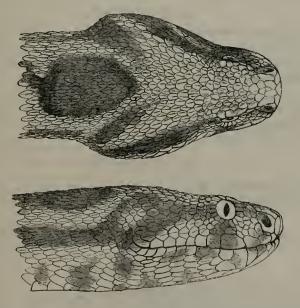
These last two species differ from the typical form of this genus in their much smaller size and in the absence of a supraorbital shield. As, however, they have the same compressed tail, I prefer keeping them in this genus to making a new genus for them.

2. On a Species of Vipera hitherto unknown. By E. D. Cope.

VIPERA CONFLUENTA, sp. nov.

Head much longer than broad, covered with small scales, which are more or less keeled as far anterior as the postfrontal region. Superciliaries little developed, once or many times divided. Scales of the upper surface of the muzzle larger; a well-developed supranasal. Prenasal large, erect, undivided; postnasal developed in front of, and narrowly superior to, the nostril. Three rows of scales between the orbits and the superior labials. The latter are elèven in number, the fourth longest, the first in contact with the prenasal. Rostral higher than broad. Inferior labials fourteen, fifth largest. Scales of the body in 25 rows, all keeled, never spiniferous. Gastrosteges 180; urosteges 48. Length from muzzle to rictus $1\frac{1}{4}$ inch, from muzzle to vent $30\frac{1}{2}$ inches, from vent to end of tail $4\frac{2}{3}$ inches.

General ground-colour brownish yellow; belly paler. A broad undulating brown band, resembling a confluence of alternate rounded spots, extends from the nape to the end of the tail. A dark brown lateral streak, which is interrupted at regular intervals, extends



throughout the greater part of the length. Labial regions yellowish; a brown band from orbit to angle of mouth; a brown spot below orbit.